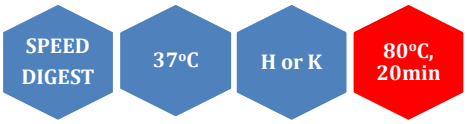
Hinf I



5’ ···G▼ANTC···3’
3’ ···CTNA▲G···5’

HinfI is a restriction enzyme purified from a recombinant *E.coli* strain.

Catalogue No	*117-1, 4000 U* *117-2, 3x4000 U*
Concentration	*10-12u/µl and 40-60u/µl**

**Add an H to cat.# to order the high concentration*

Reagents supplied: 10x H and 10x K buffer.

Unit substrate: Lambda DNA.

Unit calculation assay conditions: 100 mM NaCl, 50 mM Tris-HCl (pH 7.9 @ 25°C), 10 mM $MgCl_2$, 1 mM dithiothreitol, 100 µg/ml bovine serum albumin and DNA. Incubate at 37°C.

Absence of contaminants: 200 units of *Hinf* I do not produce any unspecific cleavage products after 16 hrs incubation with 1 µg of Lambda DNA at 37°C. After 100-fold overdigestion with *Hinf* I, greater than 90% of the DNA fragments can be ligated and recut with this enzyme.

Storage buffer: 50 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 µg/ml bovine serum albumin and 50% glycerol. Store at -20°C.

Heat inactivation: 80°C for 20 minutes.

Methylation Sensitivity:
dam methylation: Not sensitive
dcm methylation: Not sensitive
CpG methylation: Blocked by some combinations of overlapping

Percent Activity in MINOTECH Buffers

L	M	**H**	SH	A	**K**
10-25	50	**100**	75-100	50	**100**

General reaction mixture:

10U HinfI	1µl
10x H or K buffer *	2µl
DNA substrate	<1µg
Sterile ultrapure water	Up to 20 µl
Incubate for 15 min at 37°C	

**In the case of H buffer we recommend the addition of BSA to a final concentration of 100 µg/ml.*

Frequency of Cutting

λ	Ad-2	Φx174	pUC18	M13mp18	pBR322
148	72	21	6	27	10

Lambda DNA 1.4 % agarose

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